

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/535,458
Source: IFW
Date Processed by STIC: 7/5/06

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 07/05/2006

PATENT APPLICATION: US/10/535,458

TIME: 08:51:01

Input Set : N:\SSLM\10535458.txt

Output Set: N:\CRF4\07052006\J535458.raw

3 <110> APPLICANT: McLachlan, Karen
 4 Gately, Dennis
 6 <120> TITLE OF INVENTION: NOVEL GENE TARGETS AND LIGANDS THAT BIND THERETO FOR
 TREATMENT AND
 7 DIAGNOSIS OF COLON CARCINOMAS
 9 <130> FILE REFERENCE: 2159.0640005/EKS/J-H
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/535,458
 C--> 12 <141> CURRENT FILING DATE: 2005-05-19
 14 <150> PRIOR APPLICATION NUMBER: US 60/427,564
 15 <151> PRIOR FILING DATE: 2002-11-20
 17 <160> NUMBER OF SEQ ID NOS: 73
 19 <170> SOFTWARE: PatentIn version 3.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 149
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Homo sapiens
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 29 gaggggtgagg ccaaggagga cctgagagaa ggtaattaga ttggtgttt acaggctggt 120
 31 ccctgtggcc agccaccca cccacttta 149
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 679
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Homo sapiens
 39 <400> SEQUENCE: 2
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 42 agatgtttga gatgttgagg atggattgtc cagcaggcta ttaagatgtg gtgaaggcta 120
 44 gaaatgttga tttaggaggt attgccttcg agaagataaa ggaggagaag aggagagcat 180
 46 catgcaagct agagaagaga aagaagaaaa gtattctggg gaatgtctcc tttgggagca 240
 48 gaaagaagac tctgacggag cagccatcca ggaagtggaa tgagatccag gagaggaagg 300
 50 agtttcagaa ggcaggagct ggtcctctat gtcatgaaat gtagagggtg aggccaagga 360
 52 ggacctgaga gaaggaatt agatttggtg tttacaggct ggtccctgtg gccagccacc 420
 54 ccacccactt taaaatattt actctacaaa tgtaaatgtg tgaagagttg catgccagaa 480
 56 tattttatggc atcagtgttg gtggatacag aacattggga aacaacccat taatagcaga 540
 58 atggtaaatac tggccagtga atagtatagc tttttaaaag gaggctgatg tctgaattca 600
 60 ctttcaaagt tggtcacaaat gtattgctaa aatacaaaaa tgttgcagaa ccatatgtat 660
 62 gagagaaacc cctttttct 679
 65 <210> SEQ ID NO: 3
 66 <211> LENGTH: 155
 67 <212> TYPE: DNA
 68 <213> ORGANISM: Homo sapiens
 70 <400> SEQUENCE: 3
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 73 caaaacaatg tcaccatggg taccacctac ccagaagact gttccctcct cccaagacct 120

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Input Set : N:\SSLM\10535458.txt

Output Set: N:\CRF4\07052006\J535458.raw

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86 aagcactggc attcccggca acccactgcc aagcagcggg tcattgacgt ggctgactgc 120
88 aaagaaaact tcaacactgt ggagcacatt gaggaggttg cctataatgc actgtccttt 180
90 gtgtggaacg tgaatgaaga ggccaaggtg ttcacggcg taaactgtct gagcacagac 240
92 ttttcctcac aaaagggggg gaaggggtgt cccctgaacc tgcagattga cacctatgac 300
94 tgtggtcttg gcaactgagc cctggtacac cgtgctgtct gccagatcaa gatcttctgt 360
96 gacaagggag ctgagaggaa gatgcgcgat gacgagcggg agcagttccg gaggaaggtc 420
98 aagtgccctg actccagcaa cagtggcgct aagggctgcc tgctgtcggg cttcaggggc 480
100 aatgagacga cctaccttcg gccagagact gacctggaga cgccaccctg gctgttcac 540
102 cccaatgtgc acttctccag cctgcagcgg tctggagggg cagccccctc ggcaggaccc 600
104 agcagctcca acaggctgcc tctgaagcgt acctgtcgc ccttcactga ggagtttgag 660
106 cctctgcct ccaagcaggc caaggaaggc gaccttcaga gaggttctgt gtatgtgcgg 720
108 agggagactg aggaggtggt tgacgcgctc atggtgaaga cccagacct gaaggggctg 780
110 aggaatgcga tctctgagaa gtatgggttc cctgaagaga acatttaca agtctacaag 840
112 aaatgcaagc gaggaatctt agtcaacatg gacaacaaca tcattcagca ttacagcaac 900
114 cacgtgcct tctgtctgga catgggggag ctggacggca aaattcagat catccttaag 960
116 gagctgtaag gcctctcgag catccaaacc ctcacgacct gcaagggggc agcagggacg 1020
118 tggccccacg ccacacacaa cctctccaca tgccctcagc ctgttacttg aatgccttcc 1080
120 ctgaggggaag aggcccttga gtcacagacc cacagacgtc agggccaggg agagacctag 1140
122 ggggtcccct ggcctggatc cccatggtat gcttgaatct gctccctgaa cttcctgcca 1200
124 gtgcctcccc gtaccccaaa acaatgtcac catggttacc acctaccag aagactgttc 1260
126 cctcctccca agacccttgt ctgcagtggg gctcctgcag gctgcccggt aagatggtgg 1320
128 cggcacacgc tccctccgc agcaccacgc cagctggtgc ggccccact ctctgtcttc 1380
130 cttcaacttc agacaaagga tttctcaacc tttggtcagt taacttgaaa actcttgatt 1440
132 ttcagtgcaa atgactttta aaagacacta tattggagtc tctttctcag acttcctcag 1500
134 cgcaggatgt aaatagcact aacgatcgac tggaacaaag tgaccgctgt gtaaaactac 1560
136 tgccttgcca ctactgttg tatacatttc ttatttacga ttttcatttg ttatatatat 1620
138 atataaatat actgtatata tatgcaacat tttatatttt tcatggatat gtttttatca 1680
140 tttcaaaaaa tgtgtatttc acatttcttg gacttttttt agctgttatt cagtgatgca 1740
142 ttttgtatac tcacgtggta tttagtaata aaaatctatc tatgtattac gtcac 1795
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146 <211> LENGTH: 322
147 <212> TYPE: PRT
148 <213> ORGANISM: Homo sapiens
150 <400> SEQUENCE: 5
152 Ser Val Val Met Val Val Phe Asp Asn Glu Lys Val Pro Val Glu Gln
153 1 5 10 15
156 Leu Arg Phe Trp Lys His Trp His Ser Arg Gln Pro Thr Ala Lys Gln
157 20 25 30
160 Arg Val Ile Asp Val Ala Asp Cys Lys Glu Asn Phe Asn Thr Val Glu
161 35 40 45
164 His Ile Glu Glu Val Ala Tyr Asn Ala Leu Ser Phe Val Trp Asn Val
165 50 55 60

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168 Asn Glu Glu Ala Lys Val Phe Ile Gly Val Asn Cys Leu Ser Thr Asp
169 65 70 75 80
172 Phe Ser Ser Gln Lys Gly Val Lys Gly Val Pro Leu Asn Leu Gln Ile
173 85 90 95
176 Asp Thr Tyr Asp Cys Gly Leu Gly Thr Glu Arg Leu Val His Arg Ala
177 100 105 110
180 Val Cys Gln Ile Lys Ile Phe Cys Asp Lys Gly Ala Glu Arg Lys Met
181 115 120 125
184 Arg Asp Asp Glu Arg Lys Gln Phe Arg Arg Lys Val Lys Cys Pro Asp
185 130 135 140
188 Ser Ser Asn Ser Gly Val Lys Gly Cys Leu Leu Ser Gly Phe Arg Gly
189 145 150 155 160
192 Asn Glu Thr Thr Tyr Leu Arg Pro Glu Thr Asp Leu Glu Thr Pro Pro
193 165 170 175
196 Val Leu Phe Ile Pro Asn Val His Phe Ser Ser Leu Gln Arg Ser Gly
197 180 185 190
200 Gly Ala Ala Pro Ser Ala Gly Pro Ser Ser Ser Asn Arg Leu Pro Leu
201 195 200 205
204 Lys Arg Thr Cys Ser Pro Phe Thr Glu Glu Phe Glu Pro Leu Pro Ser
205 210 215 220
208 Lys Gln Ala Lys Glu Gly Asp Leu Gln Arg Val Leu Leu Tyr Val Arg
209 225 230 235 240
212 Arg Glu Thr Glu Glu Val Phe Asp Ala Leu Met Leu Lys Thr Pro Asp
213 245 250 255
216 Leu Lys Gly Leu Arg Asn Ala Ile Ser Glu Lys Tyr Gly Phe Pro Glu
217 260 265 270
220 Glu Asn Ile Tyr Lys Val Tyr Lys Lys Cys Lys Arg Gly Ile Leu Val
221 275 280 285
224 Asn Met Asp Asn Asn Ile Ile Gln His Tyr Ser Asn His Val Ala Phe
225 290 295 300
228 Leu Leu Asp Met Gly Glu Leu Asp Gly Lys Ile Gln Ile Ile Leu Lys
229 305 310 315 320
232 Glu Leu

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236 <210> SEQ ID NO: 6

237 <211> LENGTH: 1782

238 <212> TYPE: DNA

239 <213> ORGANISM: Homo sapiens

241 <400> SEQUENCE: 6

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244 tgccttctag gggcctagtg aggcttaagg gtgagcagca ggcacacaga aagctagaaa 120
246 tacaggatca ctgtgggacg gtggggctgg ccacctgggc aggccactta cccagcggcc 180
248 ccctctgtct ccagggtgttc atcggcgtaa actgtctgag cacagacttt tcctcacaaa 240
250 aggggggtgaa ggggtgtcccc ctgaacctgc agattgacac ctatgactgt ggcttgggca 300
252 ctgagcgcct ggtacaccgt gctgtctgcc agatcaagat cttctgtgac aaggagctg 360
254 agaggaagat gcgcgatgac gagcggaagc agttccggag gaaggtcaag tgccctgact 420
256 ccagcaacag tggcgtcaag ggctgcctgc tgtcgggctt caggggcaat gagacgacct 480
258 accttcggcc agagactgac ctggagacgc caccgtgtgt gttcatcccc aatgtgcact 540
260 tctccagcct gcagcggctt ggaggggcag cccctcggc aggaccagc agtccaaca 600
262 ggctgcctct gaagcgtacc tgctcgccct tctctgagga gtttgagcct ctgccctcca 660

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264 agcaggccaa ggaaggcgac cttcagagag ttctgctgta tgtgcggagg gagactgagg 720
266 aggtgtttga cgcgctcatg ttgaagaccc cagacctgaa ggggctgagg aatgcgatct 780
268 ctgagaagta tgggttccct gaagagaaca tttacaaagt ctacaagaaa tgcaagcgag 840
270 gaatcttagt caacatggac aacaacatca ttcagcatta cagcaaccac gtcgccttcc 900
272 tgcaggacat gggggagctg gacggcaaaa ttcagatcat ccttaaggag ctgtaaggcc 960
274 tctcagacat ccaaaccctc acgacctgca agggggccagc agggacgtgg cccacgcca 1020
276 cacacaacct ctccacatgc ctcagcgtcg ttacttgaat gccttccctg aggggaagagg 1080
278 cccttgagtc acagaccac agacgtcagg gccagggaga gacctagggg gtcccttggc 1140
280 ctggatcccc atggtatgct tgaatctgct ccctgaactt cctgccagtg cctccccgta 1200
282 ccccaaaaca atgtcaccat ggttaccacc taccagaag actgttccct cctcccaaga 1260
284 cccttgtctg cagtgggtgct cctgcaggct gcccgtaag atggtggcgg cacacgtcc 1320
286 ctcccgcagc accacgccag ctggtgcggc cccactctc tgtcttccct caacttcaga 1380
288 caaaggattt ctcaaccttt ggtcagttaa cttgaaaact cttgattttc agtgcaaagt 1440
290 acttttaaaa gacactatat tggagtctct ttctcagact tcctcagcgc aggatgtaaa 1500
292 tagcactaac gatcgactgg aacaaagtga ccgctgtgta aaactactgc cttgccactc 1560
294 actgttgtat acatttctta tttacgattt tcatttgta tatatatata taaatatact 1620
296 gtatatatat gcaacatttt atatttttca tggatatgtt tttatcattt caaaaaatgt 1680
298 gtatttcaca tttcttggac tttttttagc tgttattcag tgatgcattt tgtatactca 1740
300 cgtgggtattt agtaataaaa atctatctat gtattacgtc ac 1782

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303 <210> SEQ ID NO: 7

304 <211> LENGTH: 195

305 <212> TYPE: PRT

306 <213> ORGANISM: Homo sapiens

308 <400> SEQUENCE: 7

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314 Asp Ser Ser Asn Ser Gly Val Lys Gly Cys Leu Leu Ser Gly Phe Arg
315 20 25 30
318 Gly Asn Glu Thr Thr Tyr Leu Arg Pro Glu Thr Asp Leu Glu Thr Pro
319 35 40 45
322 Pro Val Leu Phe Ile Pro Asn Val His Phe Ser Ser Leu Gln Arg Ser
323 50 55 60
326 Gly Gly Ala Ala Pro Ser Ala Gly Pro Ser Ser Asn Arg Leu Pro
327 65 70 75 80
330 Leu Lys Arg Thr Cys Ser Pro Phe Thr Glu Glu Phe Glu Pro Leu Pro
331 85 90 95
334 Ser Lys Gln Ala Lys Glu Gly Asp Leu Gln Arg Val Leu Leu Tyr Val
335 100 105 110
338 Arg Arg Glu Thr Glu Glu Val Phe Asp Ala Leu Met Leu Lys Thr Pro
339 115 120 125
342 Asp Leu Lys Gly Leu Arg Asn Ala Ile Ser Glu Lys Tyr Gly Phe Pro
343 130 135 140
346 Glu Glu Asn Ile Tyr Lys Val Tyr Lys Lys Cys Lys Arg Gly Ile Leu
347 145 150 155 160
350 Val Asn Met Asp Asn Asn Ile Ile Gln His Tyr Ser Asn His Val Ala
351 165 170 175
354 Phe Leu Leu Asp Met Gly Glu Leu Asp Gly Lys Ile Gln Ile Ile Leu
355 180 185 190
358 Lys Glu Leu

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Input Set : N:\SSLM\10535458.txt

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359          195
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363 <211> LENGTH: 1458
364 <212> TYPE: DNA
365 <213> ORGANISM: Homo sapiens
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370 actagtgagg atgaggcctg gaagacgtac ctagaaaacc cggtgacagc tgccacaaag      120
372 gccatgatga gagtcaatgg agatgatgag agtggtgcgg ccttgagctt cctctatgat      180
374 tactacatgt cgatgctctt cccagatata ctgaaaacct ccccggaacc cccatgtcca      240
376 gaggactacc ccagcctcaa aagtgacttt gaatacacc tgggctcccc caaagccatc      300
378 cacatcaagt caggcgagtc acccatggcc tacctcaaca aaggccagtt ctaccccgctc      360
380 accctgcgga ccccgagcagg tggcaaaggc cttgccttgt cctccaacaa agtcaagagt      420
382 gtggtgatgg ttgtcttcga caatgagaag gtcccagtag agcagctgcg cttctggaag      480
384 cactggcatt cccggcaacc cactgccaag cagcgggtca ttgacgtggc tgactgcaaa      540
386 gaaaacttca acactgtgga gcacattgag gaggtggcct ataatgcact gtcctttgtg      600
388 tggaacgtga atgaagaggc caaggtgttc atcggcgtaa actgtctgag cacagacttt      660
390 tcctcacaaa aggggggtgaa ggggtgtccc ctgaacctgc agattgacac ctatgactgt      720
392 ggcttgggca ctgagcgctt ggtacaccgt gctgtctgcc agatcaagat cttctgtgac      780
394 aaggggagctg agaggaagat gcgcgatgac gagcgggaagc agttccggag gaaggtcaag      840
396 tgcctgact ccagcaacag tggcgctcaag ggctgcctgc tgcgggctt caggggcaat      900
398 gagacgacct accttcggcc agagactgac ctggagacgc caccctgct gttcatcccc      960
400 aatgtgcact tctccagcct gcagcggctt ggagggagcc tccagcagcc aggggctcct     1020
402 ctcatTTTTc tgcgtgtgat ggaaaatgtc tttttcactt cattgcaggc agccccctcg     1080
404 gcaggaccca gcagctccaa caggctgcct ctgaagcgta cctgctcgcc cttcactgag     1140
406 gagtttgagc ctctgccctc caagcaggcc aaggaaggcg accttcagag agttctgctg     1200
408 tatgtgcgga gggagactga ggaggtgttt gacgcgtca tgttgaagac cccagacctg     1260
410 aaggggctga ggaatgcgat ctctgagaag tatgggttcc ctgaagagaa catttacaaa     1320
412 gtctacaaga aatgcaagcg aggaatctta gtcaacatgg acaacaacat cattcagcat     1380
414 tacagcaacc acgtcgctt cctgctggac atgggggagc tggacggcaa aattcagatc     1440
416 atccttaagg agctgtaa                                     1458
419 <210> SEQ ID NO: 9
420 <211> LENGTH: 485
421 <212> TYPE: PRT
422 <213> ORGANISM: Homo sapiens
424 <400> SEQUENCE: 9
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430 Lys Phe Ser Tyr Thr Ser Glu Asp Glu Ala Trp Lys Thr Tyr Leu Glu
431          20          25          30
434 Asn Pro Leu Thr Ala Ala Thr Lys Ala Met Met Arg Val Asn Gly Asp
435          35          40          45
438 Asp Glu Ser Val Ala Ala Leu Ser Phe Leu Tyr Asp Tyr Tyr Met Ser
439          50          55          60
442 Met Leu Phe Pro Asp Ile Leu Lys Thr Ser Pro Glu Pro Pro Cys Pro
443 65          70          75          80
446 Glu Asp Tyr Pro Ser Leu Lys Ser Asp Phe Glu Tyr Thr Leu Gly Ser
447          85          90          95
450 Pro Lys Ala Ile His Ile Lys Ser Gly Glu Ser Pro Met Ala Tyr Leu

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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 Seq#:20; N Pos. 1,6,13,15,20,21,28,29,34,52,53,171,228,255,308,364,415,425
 Seq#:20; N Pos. 434,1171,1212,1220,1224
 Seq#:22; N Pos. 3,8,703,744,754,759,777,784,805,824,831,850,861,864,875,879
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 Seq#:22; N Pos. 1057,1060,1064,1065,1081,1098,1108,1112,1121,1125,1132,1141
 Seq#:22; N Pos. 1142,1145,1151,1159,1163,1168,1176,1190
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 Seq#:23; N Pos. 1224,1228
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 Seq#:36; N Pos. 268,290,295,324,325
 Seq#:41; N Pos. 175,194,292,297,302
 Seq#:46; N Pos. 52,84,119,215,216
 Seq#:48; N Pos. 45,206

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:56,57,58,59,60,61,62,63,64,65,73

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Input Set : N:\SSLM\10535458.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1075 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:60
M:341 Repeated in SeqNo=17
L:1104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
M:341 Repeated in SeqNo=18
L:1166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
M:341 Repeated in SeqNo=20
L:1240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
M:341 Repeated in SeqNo=22
L:1295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:1709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:1764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28
L:1819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:1870 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:2658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:240
M:341 Repeated in SeqNo=36
L:3079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:120
M:341 Repeated in SeqNo=41
L:3448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
M:341 Repeated in SeqNo=46
L:3500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
M:341 Repeated in SeqNo=48